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(54) Title: **MOLECULAR ANALYSIS**

(57) Abstract: The present invention relates to a method of determining the sequence and/or occurrence frequency of a number of variable gene inserts from a gene library, which inserts exhibit a desired specific characteristic, wherein each variable gene insert is flanked (5') and (3') by known sequences, the method comprising; selecting the number of inserts by their ability to exhibit the desired specific characteristic, conducting polymerase chain reaction to amplify the selected number of variable gene inserts to produce components of a mixed PCR product, ligating the components of the mixed PCR product to produce a concatenated sequence and sequencing or determining the occurrence of the gene inserts in the concatenated sequence.

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